

**SYSTEM FOR LOAD BALANCING BASED ON CLASS OF SERVICE
FOR WIRELESS COMMUNICATION SYSTEMS**

Abstract

5 The system for load balancing based on class of service for wireless communication networks dynamically balances the traffic load among a plurality of cell sites by using multiple criteria to determine which cell site is selected to provide service to a mobile subscriber station. The load balancing process is executed in response to the wireless communication network assigning a cell site to provide

10 service to a mobile subscriber station based upon a first criteria. It is then determined whether this cell site assignment results in secondary criteria being exceeded. If secondary criteria are exceeded by the assignment, the load balancing process is activated to reallocate mobile subscriber stations among the cell sites as a function of both the traffic load that exists in the cell sites as well as the class of service of the

15 mobile subscriber stations served by the cell sites. Thus, the subscribers can pay a premium price for a higher quality of service, which gives preference to this mobile subscriber station in being assigned to a cell that has a greater signal strength and therefore a higher quality of service.